

Catheterisation of the rat/mouse jugular, femoral, hepatic portal vein and carotid, femoral artery

Day 1: Basic microsurgical techniques

09.00 - 09.30 Welcome, introduction and expectations for the course

09.30 - 10.45 Good Surgical Practice (GSP) in the rat

10.45 - 11.00 Coffee and tea

11.00 - 11.45 Instruments

11.45 - 13.00 Suture materials and suture techniques

Practical exercises:

14.00 - 15.30 Microsurgical suture techniques on a latex glove

15.30 - 17.00 Anastomoses techniques on artificial vessels, using the MD PVC-Rat

Day 2: Experimental Microsurgical Techniques I

09.00 - 09.30 Vascular access

09.30 - 10.15 Jugular vein catheterisation (stress-free blood sampling)

10.15 - 10.30 Coffee and tea

Practical exercises:

10.30 - 17.00 Anatomy of the neck area, surgical approach of the jugular vein, femoral vein, including catheterisation details (insertion length and anatomical landmarks)

Day 3: Experimental Microsurgical Techniques II

09.00 - 10.15 Anaesthesia, including peri-operative care

10.15 - 10.30 Coffee and tea

Practical exercises:

10.30 - 17.00 Catheterisation of the right jugular vein and femoral vein, including catheterisation and placement of a two-channel Vascular Access Button (VAB)

Day 4: Experimental Microsurgical Techniques III

09.00 - 10.00 Asepsis

10.00 - 11.00 Catheterisation of vessels and ducts

Practical exercises:

11.00 - 17.00: Catheterisation of the left carotid artery /right jugular vein/ femoral vein/ hepatic portal vein, including tunnelling of the catheter and placement of a Vascular Access Button (VAB), and wound closure

Day 5: Experimental microsurgical techniques IV

09.00 - 10.00 Discussion/refinement on requested techniques

10.00 - 10.15 Coffee and tea

Practical exercises:

10.15 - 16.00 Catheterisation of blood vessels of choice, the whole operation under aseptic conditions. Information on automated blood sampling

16.00 - 16.15 Course evaluation